

In the Abstract:

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Abstract of the Disclosure

Equipment for exchanging power, in shunt connection, with an electric power network. A reactive impedance element and a voltage source converter provide mutual connection in series. The power network has a nominal voltage of a fundamental frequency and a given phase position. The converter is intended for generating a fundamental-tone voltage within a control range which limits the amplitude of the fundamental-tone voltage. The control range limits the amplitude of the fundamental-tone voltage to a value that is lower than the nominal voltage of the power network and comprises generation of a reactive component of the fundamental-tone voltage with a phase position that either coincides with the phase position for the voltage of the power network, or that deviates by 180° electrically from the phase position for the voltage of the power network.